Scan for full manual

MTX3-88-SE Quick Start Guide

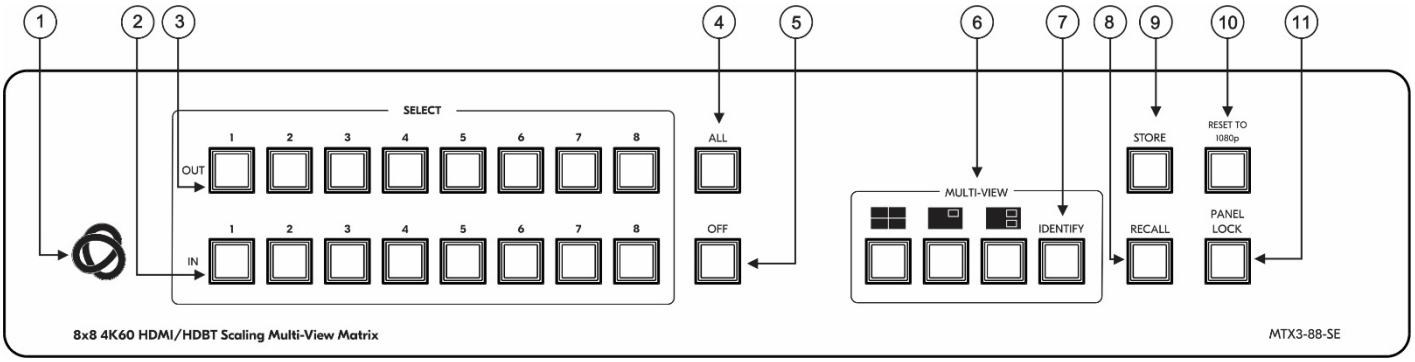
This guide helps you install and use your **MTX3-88-SE** for the first time.

Go to www.kramerav.com/downloads/MTX3-88-SE to download the latest user manual and check if firmware upgrades are available.

Step 1: Check what's in the box

- **MTX3-88-SE** 8X8 Seamless Matrix Switcher
- 1 Set of rack ears
- 1 Power Cord
- 4 Rubber feet
- 1 Quick Start Guide

Step 2: Get to know your MTX3-88-SE

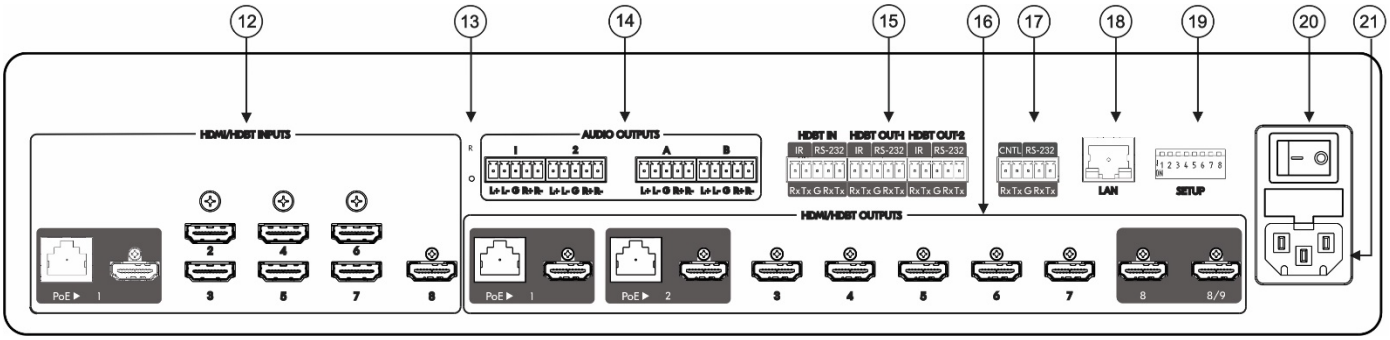


#	Feature	Function
1	ON LED (behind the logo)	On when power is supplied to the unit.
2	IN SELECT Buttons (1 to 8)	Press to select the input to switch after selecting an output (also used for storing matrix presets).
3	OUT SELECT Buttons (1 to 8)	Press to select an output to which the input is routed.
4	ALL Button	Press followed by an input button selection to connect the selected input to all outputs. For example, press ALL and then press IN 2. Input 2 is routed to all outputs.
5	OFF Button	Press after pressing an output button to disconnect the selected output from the inputs. To disconnect all the outputs, press ALL followed by OFF.
6	MULTI-VIEW	Press once to enable one of the MULTI-VIEW modes (button LED lights): 1 X PIP, 2 X PIP, or Quad. Press any lit MULTI-VIEW button to return to Matrix mode (enabled by default, button LED turns off). For more details, refer to Step 4: Defining Multi-View operation modes.
7	IDENTIFY Button	After pressing this button, the multi-view window number is displayed via OSD (**O**n **S**creen **D**isplay) for about 10 seconds within each multi-view window
8	RECALL Button	Press to recall a preset configuration: Recall a stored preset from any of the 4 presets via the front panel input buttons (1 to 4).
9	STORE Button	Press to store a configuration: Store 4 presets via the front panel input buttons (1 to 4).
10	RESET TO 1080p Button	Press and hold button for about 2 sec to set output resolution to 1080p.
11	PANEL LOCK Button	Press and hold to toggle the locking/release of the front panel buttons.

Kramer EMEA Netherlands
Stroombaan 16, The Garden 1181VX
Amstelveen
info_EMEA@kramerav.com

Kramer Headquarter: Kramer Israel
Negev 2 St. Airport City 7019900
+972 (0)73-265-0200
info_il@kramerav.com

P/N: 2900-301644QS Rev: 3



#	Feature		Function
12	HDMI/HDBT INPUTS	HDBT 1 RJ-45 Connector	Connect to an HDBT transmitter and/or HDMI source. Input 1 is user configurable. You can select the active input connector via web-UI.
		HDMI 1 Connector	
		HDMI 2-8 Connectors	Connect to an HDMI source (2-8).
13	**R**ecovery (Recessed Button)	For device restoring (for example, inactive device or failed boot-up): Before powering up the device, press the button and hold it down. Turn the unit on and release the button only after the device has completed its boot-up process.).	
14	AUDIO OUTPUTS 5-pin Terminal Block Connectors	AUDIO OUTPUT 1-2	Connect to a stereo balanced audio acceptor (1 to 2) to output De-embedded audio from HDMI Output 1 or Output 2.
		AUDIO OUTPUT A-B	Connect to a stereo balanced audio acceptor (A to B) to output De-embedded audio from any HDMI 3-7 Outputs (default Output 3, or 4).
15	HDBT IN	IR (Rx, Tx) left 2-pins on a 5-pin Terminal Block Connectors	Connect to the IR connector of an HDBT output (Tx to Rx and Rx to Tx), to extend IR signals between an HDBT transmitter on the input and HDBT receiver on an output.
		RS-232 (G, Rx, Tx) right 3-pins on a 5-pin Terminal Block Connectors	Connect to a serial controller or RS-232 controlled device for RS-232 signal extension via the HDBT input.
	HDBT OUT-1 HDBT OUT-2	IR (Rx, Tx) left 2-pins on a 5-pin Terminal Block Connectors	Connect to the IR connector of an HDBT input (Tx to Rx and Rx to Tx), to extend IR signals between an HDBT receiver on an output and an HDBT transmitter on an input.
		RS-232 (G, Rx, Tx) right 3-pins on a 5-pin Terminal Block Connectors	Extend RS-232 signal between the HDBT port and the HDBT receiver: Connect to serially control a device connected to the HDBT receiver; or to serially control a local device using a controller connected to the HDBT receiver.
16	HDMI/HDBT OUTPUTS	HDBT/HDMI RJ-45/HDMI Connectors (1 to 2)	Connect to an HDBT receiver and/or HDMI acceptor (mirrors HDBT output signal).
		HDMI Connectors (3 to 8)	Connect to HDMI acceptors.
		HDMI Connectors (8/9)	Connect to an HDMI acceptor. Output 9 mirrors Output 8.
17	CNTL (Rx, Tx) 2-pin Terminal Block Connector		Connect to a PC to control **MTX3-88-SE**.
	RS-232 (G, Rx, Tx) 3-pin Terminal Block Connector		Connect to a serially-controlled device to control the unit via IP (Default TCP port: 5001).
18	LAN RJ-45 Connector		Connect to the LAN. ⚠ Make sure to connect only one HDBaseT endpoint (transmitter or receiver) to the network equipment (switch or router). Connecting both endpoints to the network can cause network loops and signal issues.
19	SETUP		For configuring the functionality of the IR and RS-232 ports For more details, refer to the MTX3-88-SE User Manual.
20	Power Illuminated Switch		Turn the device on and off.
21	Mains Power Connector and Fuse		Plug in the power cord.

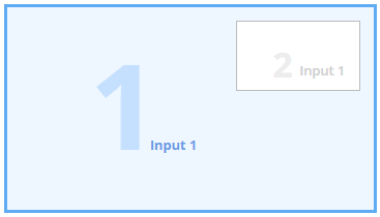
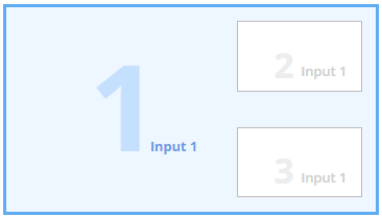
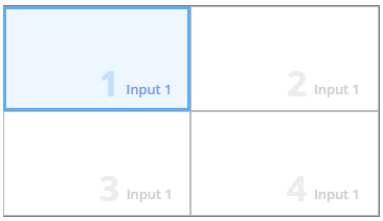
Step 3: Mounting MTX3-88-SE

To rack mount the matrix, attach both rack ears (by removing the screws from each side of the matrix and replacing those screws through the rack ears) or place the matrix on a table.

- Ensure that the environment (e.g., maximum ambient temperature & air flow) is compatible for the device.
- Avoid uneven mechanical loading.
- Appropriate consideration of equipment nameplate ratings should be used for avoiding overloading of the circuits.
- Reliable earthing of rack-mounted equipment should be maintained.

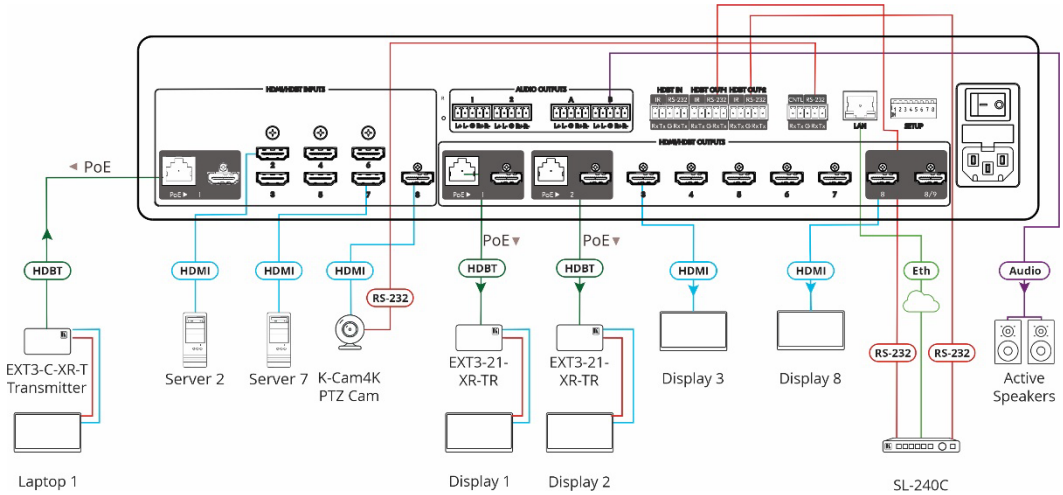
Step 4: Defining Multi-View operation modes

You can preset the multi-view configuration via the front panel buttons and select the specific inputs for each preset configuration via the embedded web pages. Seamless matrix mode is the default operation mode.

Press	Function Description	Result per Output
	PiP 1 –**MTX3-88-SE** operates as an 8X4 seamless multi-view matrix, with each output supporting a PIP overlay. Outputs 2,4,6,8 are disabled and outputs 1,3,5,7 may have a parent picture and overlayed PIP insert.	
	PiP 2 – **MTX3-88-SE** operates as an 8X2 seamless multi-view matrix, with each output supporting 2 PIP overlays. Outputs 2-4, 7-8 are disabled, and output 1&5 may have a parent picture and 2 overlayed PIP inserts.	
	QUAD – **MTX3-88-SE** operates as an 8X2 seamless multi-view matrix, with a quad layout on each output. Outputs 2-4, 6-8 are disabled, and output 1&5 consists of 4 (1/4 screen sized) pictures.	

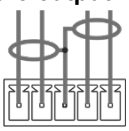
Step 5: Connect inputs and outputs

Always switch OFF the power on each device before connecting it to your **MTX3-88-SE**.

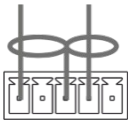


Connecting the audio output

To a balanced stereo audio acceptor:



To an unbalanced stereo audio acceptor:

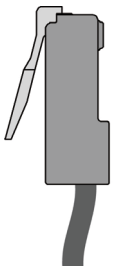


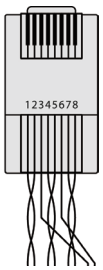
Wiring the RJ-45 Connectors

This section defines the TP pinout, using a straight pin-to-pin cable with RJ-45 connectors.

For HDBT cables, it is recommended that the cable ground shielding be connected/soldered to the connector shield.

EIA /TIA 568B	
	Wire Color
1	Orange / White
2	Orange
3	Green / White
4	Blue
5	Blue / White
6	Green
7	Brown / White
8	Brown





To achieve specified extension distances, use the recommended Kramer cables available at www.kramerav.com/product/MTX3-88-SE.
Using third-party cables may cause damage!

Step 6: Connect power

Connect the power cord to **MTX3-88-SE** and plug it into the mains electricity.

Safety Instructions (See www.kramerav.com for updated safety information)

Caution:

- For products with relay terminals and GPI\O ports, please refer to the permitted rating for an external connection, located next to the terminal or in the User Manual.
- There are no operator serviceable parts inside the unit.

Warning:

- Use only the power cord that is supplied with the unit.
- Disconnect the power and unplug the unit from the wall before installing.
- Do not open the unit. High voltages can cause electrical shock! Servicing by qualified personnel only.
- To ensure continuous risk protection, replace fuses only according to the rating specified on the product label which located on the bottom of the unit.

Step 7: Operate MTX3-88-SE

Operate **MTX3-88-SE** via:

- Front panel buttons
- Remotely, by RS-232 serial commands transmitted by a touch screen system, PC, or other serial controller
- Embedded web pages via the Ethernet

RS-232 Control / Protocol 3000			
Baud Rate:	115,200	Parity:	None
Data Bits:	8	Command Format:	ASCII
Stop Bits:	1		
Example: (Switch video input 2 to output 4): #V 2>4<CR>			
Default IP Parameters			
Fallback IP Address:	192.168.1.39	UDP Port #:	50000
Fallback Subnet Mask:	255.255.255.0	TCP Port #:	5000
Fallback Gateway:	0.0.0.0.		
Default Username:	admin	Default Password:	Admin

Switch an input to an output

Press an output button followed by an input button to switch the selected input to the selected output.

Store a switching preset

1. Configure the switching as required for the preset.
2. Press **STO** button. The STO button flashes.
3. Select an input button (1-8) to choose the preset number.

Recall a switching preset

1. Press **RCL**. The RCL button flashes.
2. Press the relevant input button that stored the preset.

The terms HDMI, HDMI High-Definition Multimedia Interface, and the HDMI Logo are trademarks or registered trademarks of HDMI Licensing Administrator, Inc.